Application Number: 10/573,052
Examiner: HAVLIN, ROBERT H

IN THE CLAIMS

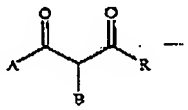
Please amend the claims of the present application under the provisions of 37 C.F.R. §1.121(c), as indicated below:

1. (Cancelled):

2. (Previously presented): The derivatives according to claim 17, characterized in that the compound having formula (I) are present as tautomeric forms, pure or as blends of tautomeric forms, in any proportion whatsoever

3-12 (Cancelled):

13. (Currently amended): Herbicidal compositions containing, one or more compounds having general formula (I):



wherein A, B and R have the meanings according to claim [[18]] 17, possibly also as a blend of tautomers .

14. (Currently amended): The herbicidal compositions according to claim 13, including other herbicides, fungicides, insecticides, acaricides, fertilizers, compatible with the compounds having general formula (I).

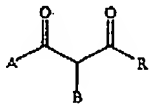
15. (Original): The herbicidal compositions according to claim 14, characterized in that the additional herbicides are selected from:
acetochlor, acifluorfen, aclonifen, AKH-7088, alachlor, alloxydim, ametryn, amicarbazone, amidosulfuron, amitrole, anilofos, asulam, atrazine, azafenidin,

azimsulfuron, aziprotryne, BAS 670 H, BAY MKH 6561, beflubutamid, benazolin, benfluralin, benfuresate, bensulfuron, bensulide, bentazone, benzfendizone, benzobicyclon, benzofenap, benzthiazuron, bifenox, bilanafos, bispyribac-sodium, bromacil, bromobutide, bromofenoxim, bromoxynil, butachlor, butafenacil, butamifos, butenachlor, butralin, butroxydim, butylate, cafenstrole, carbetamide, carfentrazone-ethyl, chlomethoxyfen, chloramben, chlorbromuron, chlorbufam, chlorflurenol, chloridazon, chlorimuron, chlornitrofen, chlorotoluron, chloroxuron, chlorpropham, chlorsulfuron, chlorthal, chlorthiamid, cinidon ethyl, cinmethylin, cinosulfuron, clethodim, clodinafop, clomazone, clomeprop, clopyralid, cloransulam-methyl, cumyluron (JC-940), cyanazine, cycloate, cyclosulfamuron, cycloxydim, cyhalofop-butyl, 2,4-D, 2,4-DB, daimuron, dalapon, desmedipham, desmetryn, dicamba, dichlobenil, dichlorprop, dichlorprop-P, diclofop, diclosulam, diethatyl, difenoxuron, difenzoquat, diflufenican, diflufenzopyr, dimefuron, dimepiperate, dimethachlor, dimethametryn, dimethenamid, dinitramine, dinosseb, dinoseb acetate, dinoterb, diphenamid, dipropetryn, diquat, dithiopyr, 1-diuron, eglinazine, endothal, EPTC, esprocarb, ethalfluralin, ethametsulfuron-methyl, ethidimuron, ethiozin (SMY 1500), ethofumesate, ethoxyfen-ethyl (HC-252), ethoxysulfuron, etobenzanid (HW 52), fenoxaprop, fenoxaprop-P, fentrazamide, fenuron, flamprop, flamprop-M, flazasulfuron, florasulam, fluazifop, fluazifop-P, fluazolate (JV 485), flucarbazone-sodium, fluchloralin, flufenacet, flufenpyr ethyl, flumetsulam, flumiclorac-pentyl, flumioxazin, flumipropin, fluometuron, fluoroglycofen, fluoronitrofen, flupoxam, fluproanate, flupyrsulfuron, flurenol, fluridone, flurochloridone, fluroxypyr, flurtamone, fluthiacet-methyl, fomesafen, foramsulfuron, fosamine, furyloxyfen, glufosinate, glyphosate, halosulfuron-methyl, haloxyfop, haloxyfop-P-methyl, hexazinone, imazamethabenz, imazamox, imazapic, imazapyr, imazaquin, imazethapyr, imazosulfuron, indanofan, iodosulfuron, ioxynil, isopropalin, isoproturon, isouron, isoxaben, isoxachlortole, isoxaflutole, isoxapyrifop, KPP-421, lactofen, lenacil, linuron, LS830556, MCPA, MCPA-thioethyl, MCPB, mecoprop, mecoprop-P, mefenacet, mesosulfuron, mesotrione, metamitron, metazachlor,

methabenzthiazuron, methazole, methoprotryne, methyldymron, metobenzuron, metobromuron, metolachlor, S-metolachlor, metosulam, metoxuron, metribuzin, metsulfuron, molinate, monalide, monolinuron, naproanilide, napropamide, naptalam, NC-330, neburon, nicosulfuron, nipyraclofen, norflurazon, orbencarb, oryzalin, oxadiargyl, oxadiazon, oxasulfuron, oxaziclomefone, oxyfluorfen, paraquat, pebulate, pendimethalin, penoxsulam, pentanochlor, pentoxazone, pethoxamid, phenmedipham, picloram, picolinafen, piperophos, pretilachlor, primisulfuron, prodiamine, profluazol, proglinazine, prometon, prometryne, propachlor, propanil, propaquizafop, propazine, propham, propisochlor, propyzamide, prosulfocarb, prosulfuron, pyraclonil, pyraflufen-ethyl, pyrazogyl (HAS-961), pyrazolynate, pyrazosulfuron, pyrazoxyfen, pyribenzoxim, pyributicarb, pyridafol, pyridate, pyriftalid, pyriminobac-methyl, pyrithiobac-sodium, quinclorac, quinmerac, quizalofop, quizalofop-P, rimsulfuron, sethoxydim, siduron, simazine, simetryn, sulcotrione, sulfentrazone, sulfometuron-methyl, sulfosulfuron, 2,3,6-TBA, TCA-sodium, tebutam, tebuthiuron, tepraloxydim, terbacil, terbumeton, terbuthyl-azine, terbutryn, thenylchlor, thiazafluron, thiazopyr, thidiazimin, thifensulfuron-methyl, thiobencarb, tiocarbazil, tioclorim, tralkoxydim, tri-allate, triasulfuron, triaziflam, tribenuron, triclopyr, trietazine, trifloxysulfuron, trifluralin, triflusulfuron-methyl, tritosulfuron, UBI-C4874, vernolate.

16. (Orignal): The compositions according to any of the claims 13-15, characterized in that the concentration of active substance ranges from 1 to 90%.

17. (New): Derivatives of 1,3-diones having general formula (I):

(I) 

wherein:

-A represents:

an aryl group optionally substituted by one or more substituents selected from halogen; NO_2; CN; CHO; OH; linear or branched C1-C_6 alkyl; linear or branched C_1-C_6 haloalkyl; linear or branched C_1-C_6 alkoxyl; linear or branched C_1-C_6 haloalkoxyl; C_1-C_6 cyanoalkyl; C_2-C_6 alkoxyalkyl; C_2-C_6 alkylthioalkyl; C_2-C_6 alkylsulfinylalkyl; C_2-C_6 alkylsulfonylalkyl; C_2-C_6 haloalkoxyalkyl; C_2-C_6 haloalkylthioalkyl; C_2-C_6 haloalkylsulfinylalkyl; C_2-C_6 haloalkylsulfonylalkyl; C_2-C_6 alkoxyalkoxyl or C_2-C_6 haloalkoxyalkoxyl optionally substituted with a group selected from C_1-C_4 alkoxyl or C_1-C_4 haloalkoxyl; C_2-C_6 alkylthioalkoxyl; C_2-C_6 haloalkylthioalkoxyl; C_3-C_{12} dialkoxyalkyl; C_3-C_{12} dialkylthioalkyl; C_3-C_{12} dialkylthioalkoxyl; C_3-C_{12} dialkoxyalkoxyl; C_2-C_6 haloalkoxyhaloalkoxyl; C_3-C_{10} alkoxyalkoxyalkyl; C_2-C_6 alkenyl; C_2-C_6 haloalkenyl; C_2-C_6 alkenyloxy; C_2-C_6 haloalkenyloxy; C_3-C_8 alkenyloxyalkoxyl; C_3-C_8 haloalkenyloxyalkoxyl; C_2-C_6 alkynyl; C_2-C_6 haloalkynyl; C_2-C_6 alkynyloxy; C_2-C_6 haloalkynyloxy; C_3-C_8 alkynyloxyalkoxyl; C_3-C_8 haloalkynyloxyalkoxyl; C_3-C_{12} acylaminoalkoxy; C_2-C_8 alkoxyiminoalkyl; C_2-C_8 haloalkoxyiminoalkyl; C_3-C_8 alkenyloxyiminoalkyl; C_3-C_8 haloalkenyloxyiminoalkyl; C_3-C_8 alkynyloxyiminoalkyl; C_3-C_8 haloalkynyloxyiminoalkyl; C_5-C_{10} alkoxyalkynyloxyl; C_6-C_{12} cycloalkylideneiminooxyalkyl; C_6-C_{12} dialkylideneiminooxyalkyl; —$S(O)_mR_1$; —$OS(O)_tR_1$; —$SO_2NR_2R_3$; —CO_2R_4; —COR_5; —$CONR_6R_7$; —$CSNR_8R_9$; —$NR_{10}R_{11}$; —$NR_{12}COR_{13}$; —$NR_{14}CO_2R_{15}$; —$NR_{16}CONR_{17}R_{18}$; —$PO(R_{19})_2$; -Q; -ZQ_1; —$(CR_{20}R_{21})pQ_2$; -$Z(CR_{22}R_{23})pQ_3$; —$(CR_{24}R_{25})pZQ_4$; —$(CR_{26}R_{27})pZ(CR_{28}R_{29})qQ5$; —$(CR_{30}R_{31})pZ(CR_{32}R_{33})qZ_1Q_6$; -$Z_2(CR_{34}R_{35})p(C=Y)T$; -$Z_3(CR_{36}R_{37})v(CR_{38}R_{39}=CR_{40}R_{41})(C=Y)T$;

or it represents a heterocyclic group selected from pyridyl; pyrimidyl; quinolinyl; pyrazolyl; thiazolyl; oxazolyl; thienyl; furyl; benzothienyl; dihydrobenzothienyl; benzofuranyl; dihydrobenzofuranyl; benzoxazolyl; benzoxazolonyl; benzothiazolyl;

benzothiazolonyl; benzoimidazolyl; benzoimidazolonyl; benzotriazolyl; chromanonyl; chromanyl; thiochromanonyl; thiochromanyl; 3a,4-dihydro-3H-indeno[1,2-c]isoxazolyl, 3a,4-dihydro-3H-chromeno[4, 3-c]isoxazolyl, 5,5-dioxide-3a,4-dihydro-3H-thiochromeno[4,3-c]isoxazolyl, 2,3,3a,4-tetrahydrochromeno[4,3-c]pyrazolyl, 6,6-dioxide-2,3-dihydro-5H-[1,4]dithiino[2,3-c]thiochromenyl, 5,5-dioxide-2,3,3a,4-tetrahydrothiochromeno[4,3-c]pyrazolyl, 1',1'-dioxide-2',3'-dihydrospiro[1,3-dioxolano-2,4'-thiochromen]-yl, 1,1,4,4-tetraoxide-2,3-dihydro-1,4-benzodithiin-6-yl, 4,4-dioxide-2,3-dihydro-1,4-benzoxathiin-7-yl, 1,1-dioxide-3-oxo-2,3-dihydro-1,2-benzoisothiazol-5-yl, 4-(alkoxyimino)-1,1-dioxide-3,4-dihydro-2H-thiochromen-6-yl, 1,1-dioxide-4-oxo-3,4-dihydro-2H-thiochromen-6-yl, 2,3-dihydro-1,4-benzoxathiin-7-yl,with said heterocyclic groups optionally substituted by one or more substituents selected from halogen; NO_2; CN; CHO; OH; linear or branched C_1-C_6 alkyl; linear or branched C_1-C_6 haloalkyl; linear or branched C_1-C_6 alkoxyl; linear or branched C_1-C_6 haloalkoxyl; C_1-C_6 cyanoalkyl; C_2-C_6 alkoxyalkyl; C_2-C_6 alkylthioalkyl; C_2-C_6 alkyl sulfinylalkyl; C_2-C_6 alkylsulfonylalkyl; C_2-C_6 haloalkoxyalkyl; C_2-C_6 haloalkylthioalkyl; C_2-C_6 haloalkylsulfinylalkyl; C_2-C_6 haloalkylsulfonylalkyl; C_2-C_6 alkoxyalkoxyl or C_2-C_6 haloalkoxyalkoxyl optionally substituted with a group selected from C_1-C_4 alkoxyl or C_1-C_4 haloalkoxyl; C_2-C_6 alkylthioalkoxyl; C_2-C_6 haloalkylthioalkoxyl; C_3-C_{12} dialkoxyalkyl; C_3-C_{12} dialkylthioalkyl; C_3-C_{12} dialkylthioalkoxyl; C_3-C_{12} dialkoxyalkoxyl; C_2-C_6 haloalkoxyhaloalkoxyl; C_3-C_{10} alkoxyalkoxyalkyl; C_2-C_6 alkenyl; C_2-C_6 haloalkenyl; C_2-C_6 alkenyloxy; C_2-C_6 haloalkenyloxy; C_3-C_8 alkenyloxyalkoxyl; C_3-C_8 haloalkenyloxyalkoxyl; C_2-C_6 alkynyl; C_2-C_6 haloalkynyl; C_2-C_6 alkynyloxy; C_2-C_6 haloalkynyloxy; C_3-C_8 alkynyloxyalkoxyl; C_3-C_8 haloalkynyloxyalkoxyl; C_3-C_{12} acylaminoalkoxy; C_2-C_8 alkoxyiminoalkyl; C_2-C_8 haloalkoxyiminoalkyl; C_3-C_8 alkenyloxyiminoalkyl; C_3-C_8 haloalkenyloxyiminoalkyl; C_3-C_8 alkynyloxyiminoalkyl; C_3-C_8 haloalkynyloxyiminoalkyl; C_5-C_{30} alkoxyalkynyloxyl; C_6-C_{12} cycloalkyl ideneiminooxyalkyl; C_6-C_{12} dialkylideneiminooxyalkyl; —$S(O)_mR_1$; —$OS(O)_nR_1$; —$SO_2NR_2R_3$; —CO_2R_4; —COR_5; —$CONR_6R_7$; —$CSNR_8R_9$; —$NR_{10}R_{11}$; —

$NR_{12}COR_{13}$; —$NR_{14}CO_2R_{15}$; —$NR_{16}CONR_{17}R_{18}$; —$PO(R_{19})_2$; -Q; -ZQ_1; —$(CR_{20}R_{21})_pQ_2$; -$Z(CR_{22}R_{23})_pQ_3$; —$(CR_{24}R_{25})_pZQ_4$; —$(CR_{26}R_{27})_pZ(CR_{29}R_{29})_qQ_5$; —$(CR_{30}R_{31})_pZ(CR_{32}R_{33})_qZ_1Q_6$; -$Z_2(CR_{34}R_{35})_p(C=Y)T$; -$Z_3(CR_{36}R_{37})$; $(CR_{38}R_{39}=CR_{40}R_{41})(C=Y)T$;

-B represents a D-$(R_x)_n$ group;

-R represents a hydrogen atom; a linear or branched C_1-C_6 alkyl group; a linear or branched C_1-C_6 haloalkyl group; a C_3-C_6 cycloalkyl or C_4-C_{12} cyclo-alkylalkyl group optionally substituted with halogen atoms or C_1-C_6 alkyl or C_1-C_6 thioalkyl or C_1-C_6 alkoxyl or C_2-C_6 alkoxycarbonyl groups; C_2-C_6 alkenyl groups; C_2-C_6 alkynyl groups; the latter two groups; in turn; optionally substituted with halogen atoms; a C_5-C_6 cycloalkenyl group optionally substituted with halogen atoms or C_1-C_6 alkyl groups; an aryl or arylalkyl group optionally substituted;

-R_1 and R_{19} represent a C_1-C_6 alkyl group or a C_1-C_6 haloalkyl group; a C_3-C_6 cycloalkyl group; an aryl group optionally substituted by one or more substituents selected from halogen, NO_2, CN, CHO, linear or branched C_1-C_6 alkyl, linear or branched C_1-C_6 haloalkyl, linear or branched C_1-C_6 alkoxyl, linear or branched C_3-C_6 haloalkoxyl, C_1-C_6 alkylsulfonyl, C_2-C_6 alkoxycarbonyl;

-m is equal to 0, 1 or 2;

-t is equal to 1 or 2;

-R_2, R_3, R_6, R_7, R_8, R_9, R_{10}, R_{11}, R_{17} and R_{18}, the same or different, represent a hydrogen atom; a linear or branched C_1-C_6 alkyl group in turn optionally substituted with halogen atoms; a C_1-C_6 alkoxyl group; a C_3-C_6 cycloalkyl group; an arylalkyl group or an aryl group; said arylalkyl and aryl groups also optionally substituted by

one or more substituents selected from halogen, NO_2, CN, CHO, linear or branched C_1-C_6 alkyl, linear or branched C_1-C_6 haloalkyl, linear or branched C_1-C_6 alkoxyl, linear or branched C_1-C_6 haloalkoxyl, C_1-C_6 alkylsulfonyl, C_2-C_6 alkoxycarbonyl, or, together with the group bonded to the same N atom, they jointly represent a C_2-C_5 alkylene group;

-R_4, R_5 and R_{42} represent a hydrogen atom; a linear or branched C_1-C_6 alkyl group in turn optionally substituted with halogen atoms; a C_3-C_6 alkenyl group in turn optionally substituted with halogen atoms; a Q_7 group, an arylalkyl group optionally substituted by one or more substituents selected from halogen, NO_2, CN, CHO, linear or branched C_1-C_6 alkyl, linear or branched C_1-C_6 haloalkyl, linear or branched C_1-C_6 alkoxyl, linear or branched C_1-C_6 haloalkoxyl, C_1-C_6 alkylsulfonyl, C_2-C_6 alkoxy-carbonyl;

-R_{12}, R_{14} and R_{16} represent a hydrogen atom; a linear or branched C_1-C_6 alkyl group in turn optionally substituted with halogen atoms; a C_3-C_6 cycloalkyl group; a C_1-C_6 alkoxyl group; a C_1-C_6 haloalkoxyl group;

-R_{13} and R_{15} represent a hydrogen atom; a linear or branched C_1-C_6 alkyl group in turn optionally substituted with halogen atoms; a C_3-C_6 alkenyl group in turn optionally substituted with halogen atoms; a Q_7, NH_2, NHCN, $NHNH_2$, NHOH group, an arylalkyl group optionally substituted by one or more substituents selected from halogen, NO2, CN, CHO, linear or branched C_3-C_6 alkyl, linear or branched C_1-C_6 haloalkyl, linear or branched C_1-C_6 alkoxyl, linear or branched C_1-C_6 haloalkoxyl, C_1-C_6 alkylsulfonyl, C_2-C_6 alkoxycarbonyl;

R_{20}, R_{21}, R_{22}, R_{23}, R_{24}, R_{25}, R_{26}, R_{27}, R_{28}, R_{29}, R_{30}, R_{31}, R_{32}, R_{33}, R_{34}, R_{35}, R_{36}, R_{37}, R_{38}, R_{39}, R_{40} and R_{41}, the same or different, represent: a hydrogen atom; a linear or branched C_1-C_6 alkyl group in turn optionally substituted with halogen atoms; a C_1-C_6

alkoxyl group; or the two groups attached to the same carbon atom can be joined to each other by C_2-C_5 alkylene groups, the alkylene groups can in turn be substituted with C_1-C_3 alkyl groups;

-Q, Q_1, Q_2, Q_3, Q_4, Q_5, Q_6 and Q_7 represent an aryl group; a C_3-C_6 cycloalkyl group; a C_5-C_6 cycloalkenyl group; a heterocyclic group selected from triazolyl; triazolonyl; pyrazolyl; imidazolyl; imidazolidinonyl; tetrazolyl; tetrazolonyl; isoxazolyl; furyl; thienyl; pyrrolyl; pyrrolidinyl; pyrrolidinonyl; pyridyl; pyrimidinyl; pyrimidinonyl; pyrazinyl; pyridazinyl; oxazolyl; thiazolyl; oxadiazolyl; thiadiazolyl; isothiazolyl; benzoxazolyl; benzothiazolyl; isoxazolinyl; 1,3-dioxanyl; 1,4-dioxanyl; 1,3-dioxolanyl; tetrahydropyranyl; oxethanyl; oxyranyl; thiazolidinyl; oxazolidinyl; piperidinyl; piperidinonyl; piperazinyl; morpholinyl; thiazinyl; tetrahydrofuranyl; dioxazolyl; tetrahydrofuroisoxazolyl; 2-oxa-3-azabicyclo[3.1.0]hex-3-enyl; said groups optionally substituted by one or more substituents selected from halogen: NO_2; OH; CN; CHO; linear or branched C_1-C_6 alkyl; linear or branched C_1-C_6 haloalkyl; linear or branched C_1-C_6 alkoxyl; linear or branched C_1-C_6 haloalkoxyl; C_1-C_6 cyanoalkyl; C_2-C_6 alkoxyalkyl; C_2-C_6 alkylthioalkyl; C_2-C_6 alkylsulfinylalkyl; C_2-C_6 alkylsulfonylalkyl; C_2-C_6 haloalkoxyalkyl; C_2-C_6 haloalkylthioalkyl; C_2-C_6 haloalkylsulfinylalkyl; C_2-C_6 haloalkylsulfonylalkyl; C_2-C_6 alkoxyalkoxyl or C_2-C_6 haloalkoxyalkoxyl optionally substituted with a group selected from C_1-C_4 alkoxyl or C_1-C_4 haloalkoxyl; C_2-C_6 alkylthioalkoxyl; C_2-C_6 haloalkylthioalkoxyl; C_3-C_{12} dialkoxyalkyl; C_3-C_{12} dialkylthioalkyl; C_3-C_{12} dialkylthioalkoxyl; C_3-C_{12} dialkoxyalkoxyl; C_2-C_6 haloalkoxyhaloalkoxyl; C_3-C_{10} alkoxyalkoxyalkyl; C_2-C_6 alkenyl; C_2-C_6 haloalkenyl; C_2-C_6 alkenyloxy; C_2-C_6 haloalkenyloxy; C_3-C_8 alkenyloxyalkoxyl; C_3-C_8 haloalkenyloxyalkoxyl; C_2-C_6 alkynyl; C_2-C_6 haloalkynyl; C_2-C_6 alkynyloxy; C_2-C_6 haloalkynyloxy; C_3-C_8 alkynyloxyalkoxyl; C_3-C_8 haloalkynyloxyalkoxyl; C_3-C_{12} acylaminoalkoxy; C_2-C_8 alkoxyiminoalkyl; C_2-C_8 haloalkoxyiminoalkyl; C_3-C_8 alkenyloxyiminoalkyl; C_3-C_8 haloalkenyloxyiminoalkyl; C_3-C_8 alkynyloxyiminoalkyl; C_3-C_8 haloalkynyloxyiminoalkyl; C_5-C_{10}

alkoxyalkynyloxyl; C_6-C_{12} cycloalkylideneiminooxyalkyl; C_6-C_{12} dialkylideneiminooxyalkyl; aryl optionally substituted; —$S(O)_mR_1$; —$OS(O)_tR_1$; —$SO_2NR_2R_3$; —CO_2R_4; —COR_5; —$CONR_6R_7$; —$CSNR_8R_9$; —$NR_{10}R_{11}$; —$NR_{12}COR_{13}$; —$NR_{14}CO_2R_{15}$; —$NR_{16}CONR_{17}R_{18}$; —$PO(R_{19})_2$; -$Z_2(CR_{34}R_{35})_p(C{=}Y)T$; -$Z_3(CR_{36}R37)_v(CR_{38}R_{39}{=}CR_{40}R_{41})(C{=}Y)T$;

Z, Z_1, Z_2=O, $S(O)_r$;

Y=O, S;

r is equal to 0, 1 or 2;

p, q are equal to 1, 2, 3 or 4;

v is equal to 0 or 1;

Z_3=O, S or a direct bond;

T represents: a hydrogen atom; a Z_4R_{42} group; a —$NR_{43}R_{44}$ group; an aryl group or a heterocyclic group selected from triazolyl; triazolonyl; pyrazolyl; imidazolyl; imidazolidinonyl; tetrazolyl; tetrazolonyl; pyrrolyl; pyrrolidinyl; pyrrolidinonyl; pyridyl; pyrimidinyl; piperidinyl; piperidinonyl; piperazinyl; morpholinyl; said aryl and hetrocyclic groups optionally substituted by one or more substituents selected from halogen; NO_2; OH; CN; CHO; linear or branched C_1-C_6 alkyl; linear or branched C_1-C_6 haloalkyl; C_3-C_6 cycloalkyl; C_5-C_6 cycloalkenyl; linear or branched C_1-C_6 alkoxyl; linear or branched C_1-C_6 haloalkoxyl; C_3-C_6 cyanoalkoyl; C_2-C_6 alkoxyalkyl; C_2-C_6 alkylthioalkyl; C_2-C_6 alkylsulfinylalkyl; C_2-C_6 alkylsulfonylalkyl; C_2-C_6 haloalkoxyalkyl; C_2-C_6 haloalkylthioalkyl; C_2-C_6 haloalkylsulfinylalkyl; C_2-C_6 haloalkylsulfonylalkyl; —$S(O)_mR_1$;

Z_4=O, S or a direct bond;

R_{43} and R_{44}, the same or different, represent: a hydrogen atom; a linear or branched C_1-C_6 alkyl group in turn optionally substituted with halogen atoms; a C_3-C_6 alkenyl group in turn optionally substituted with halogen atoms; a Q_7 group; an arylalkyl group optionally substituted by one or more substituents selected from halogen; NO_2; CN; CHO; linear or branched C_1-C_6 alkyl; linear or branched C_1-C_6 haloalkyl; linear or branched C_1-C_6 alkoxyl; linear or branched C_1-C_6 haloalkoxyl; C_1-C_6 alkylsulfonyl; C_2-C_6 alkoxycarbonyl; or they jointly represent a C_2-C_5 alkylene chain;

D represents: a heterocyclic group of the heteroaryl or heterocyclic type, in all the above cases the heterocycle can be mono or polycyclic and can be connected to the rest of the structure either through one of its carbon atoms or, when possible, through one of its nitrogen atoms~~; or it represents a mono or polycyclic aryl group, in this latter case, the group can also be partially saturated~~;

R_x represents a substituent selected from: hydrogen; halogen; NO_2; CN; CHO; OH; linear or branched C_1-C_6 alkyl; linear or branched C1-C_6 haloalkyl; linear or branched C_1-C_6 alkoxyl; linear or branched C_1-C_6 haloalkoxyl; C_1-C_6 cyanoalkyl; C_2-C_6 alkoxyalkyl; C_2-C_6 alkylthioalkyl; C_2-C_6 alkylsulfinylalkyl; C_2-C_6 alkylsulfonylalkyl; C_2-C_6 haloalkoxyalkyl; C_2-C_6 haloalkylthioalkyl; C_2-C_6 haloalkylsulfinylalkyl; C_2-C_6 haloalkylsulfonylalkyl; C_2-C_6 alkoxyalkoxyl or C_2-C_6 haloalkoxyalkoxyl optionally substituted with a group selected from C_1-C_4 alkoxyl or C_1-C_4 haloalkoxyl; C_2-C_6 haloalkylthioalkoxyl; C_3-C_{12} dialkoxyalkyl; C_3-C_{12} dialkylthioalkyl; C_3-C_{12} dialkylthioalkoxyl; C_3-C_{12} dialkoxyalkoxyl; C_2-C_6 haloalkoxyhaloalkoxyl; C_3-C_{10} alkoxyalkoxyalkyl; C_2-C_6 alkenyl; C_2-C_6 haloalkenyl; C_2-C_6 alkenyloxy; C_2-C_6 haloalkenyloxy; C_3-C_8 alkenyloxyalkoxyl; C_3-C_8 haloalkenyloxyalkoxyl; C_2-C_6 alkynyl; C_2-C_6 haloalkynyl; C_2-C_6 alkynyloxy; C_2-C_6 haloalkynyloxy; C_3-C_8

alkynyloxyalkoxyl; C_3-C_8 haloalkynyloxyalkoxyl; C_3-C_{12} acylaminoalkoxy; C_2-C_8 alkoxyiminoalkyl; C_2-C_8 haloalkoxyiminoalkyl; C_3-C_8 alkenyloxyiminoalkyl; C_3-C_8 haloalkenyloxyiminoalkyl; C_3-C_8 alkynyloxyiminoalkyl; C_3-C_8 haloalkynyloxyiminoalkyl; C_5-C_{10} alkoxyalkynyloxyl; C_6-C_{12} cycloalkylideneiminooxyalkyl; C_6-C_{12} dialkylideneiminooxyalkyl; —$S(O)_mR_1$; —$OS(O)_lR_1$; —$SO_2NR_2R_3$; —CO_2R_4; —COR_5; —$CONR_6R_7$; —$CSNR_8R_9$; —$NR_{10}R_{11}$; —$NR_{12}COR_{13}$; —$NR_{14}CO_2R_{15}$; —$NR_{16}CONR_{17}R_{18}$; —$PO(R_{19})_2$; -Q; -ZQ_1; —$(CR20R21)_pQ_2$; -$Z(CR_{22}R_{23})_pQ_3$; —$(CR_{24}R_{25})_nZQ_4$; —$(CR_{26}R_{27})_pZ(CR_{28}R_{29})_qQ_5$; —$(CR_{30}R_{31})_pZ(CR_{32}R_{33})_qZ_1Q_6$; -$Z_2(CR_{34}R_{35})_p(C{=}Y)T$; -$Z_3(CR_{36}R_{37})_v(CR_{38}R_{39}{=}CR_{40}R_{41})(C{=}Y)T$;

if several R_x groups are present, these can be the same or different;

n=1-9;

excluding the following compounds having general formula (I) wherein A, B and R have the following meanings: A=4-chlorophenyl, B=1-methylimidazol-2-yl, R=H; A=4-nitrophenyl, B=1-(2-hydroxyethyl)-5-nitroimidazol-2-yl, R=H; A=phenyl, B=1H-benzimidazol-2-yl, R=C_2H_5; A=phenyl, B=4H-1-benzopyran-4-yl, R=CH_3; A=4-nitrophenyl, B=3-(4-methylphenyl)-1,2,4-oxadiazol-5-yl, R=CH_3;A=phenyl, B=4-chloro-2,5-dioxo-2,5-dihydro-1H-pyrrol-3-yl, R=CH_3;A=phenyl, B=2-acetyl-1,2,3,4-tetrahydroisoquinolin-1-yl, R=C_2H_5; A=2-hydroxy-4-methoxyphenyl, B=thiazol-4-yl, R=CH_3; A=phenyl, B=2,5-diphenyl-1,3-oxathiol-2-yl, R=CH_3; A=4-nitrophenyl, B=4,6-bis(dimethylamino)-1,3,5-triazin-2-yl, R=CH_3; A=phenyl, B=furan-2-yl, R=CH_3; A=phenyl, B=1,3-dithian-2-yl, R=CH_3; A=phenyl, B=4-chlorothien-2-yl, R=H; A=phenyl, B=5-bromothien-2-yl, R=H; A=phenyl, B=5-methylthien-2-yl, R=H; A=phenyl, B=6-phenylpyrazin-2-yl, R=CH_3; A=phenyl, B=3,4-dihydro-3-methyl-2-oxo-2H-1,3-benzo-oxazin-4-yl, R=CH_3; A=phenyl, B=benzothiazol-2-yl, R=CH_3; A=2-hydroxy-4-methoxyphenyl, B=2-phenylthiazol-4-yl, R=CH_3; A=phenyl, B=5-methylfuran-2-yl, R=CH_3; A=phenyl, B=3-(4-methylphenyl)-1,2,4-oxadiazol-5-yl, R=CH_3; A=phenyl, B=tetrahydrofuran-2-yl,

R=CH_3; A=phenyl, B=2,3-dihydro-3-hydroxy-2-oxo-1H-indol-3-yl, R=CH_3, A=phenyl, B=4-chloro-1-methyl-2,5-dioxo-2,5-dihydro-pyrrol-3-yl, R=CH_3; A=phenyl, B=22-trifluoroacetyl-1,2,3,4-tetrahydroiso-quinolin-1-yl, R=C_2H_5; A=phenyl, B=2-acetyl-1,2,3,4-tetrahydroisoquinolin-1-yl, R=CH3; A=4-nitrophenyl, B=2-(4-nitrophenyl)-3,5,6-triphenyl-pyridin-4-yl, R= CH_3; A=phenyl, B=4,6-bis (dimethylamino)-1,3,5-triazin-2-yl, R= CH_3; A=phenyl, B=4-methoxy-5-tert-butoxycarbonyl-1H-pyrro-2-yl, R= CH_3; A=phenyl, B=1,3-dihydro-3-oxo-isobenzofuran-1-yl, R= CH_3; A=phenyl, B=(5-methoxycarbonylmethyl)thien-2-yl, R=H;A=phenyl, B=4-methylthien-2-yl, R=H; A=phenyl, B=1,4-dihydro-1-methyl-3-nitroquinolin-4-yl, R=H; A=phenyl, B=thien-2-yl, R=H; A=phenyl, B=6-methylbenzothiazol-2-yl, R= CH_3; A=2-methoxycarbonylphenyl, B=phenyl, R= CH_3; A=2-benzyloxy-4-methoxyphenyl, B=2,3,4-trimethoxyphenyl, R=H; A=4,5-dimethoxy-2-nitrophenyl, B=3,4-dimethoxyphenyl, R=H;A=2-nitrophenyl, B=phenyl, R=H; A=2,4,5-trimethoxyphenyl, B=4-methoxyphenyl, R=H; A=4-bromophenyl, B=phenyl, R=H; A=4-bromophenyl, B=2,4-dinitrophenyl, R= CH_3; A=4-chlorophenyl, B=phenyl, R=H;A=2,4-dibenzyloxy-5-methoxyphenyl, B=1,3-benzodioxol-5-yl, R=H; A=2,4-dibenzyloxyphenyl, B=1,3-benzodioxol-5-yl, R=H;A=4-methoxyphenyl, B=2-carboxyphenyl, R=H; A=4-methylphenyl, B=2,4-dinitrophenyl, R= CH_3;A=4-hydroxy-3-methoxyphenyl, B=4-hydroxy-3-methoxyphenyl, R=H; A=2-nitrophenyl, B=4-methylphenyl, R=H;A=4-chlorophenyl, B=4-chlorophenyl, R=H; A=2,4-diacetoxyphenyl, B=phenyl, R= CH_3;A=3-methoxyphenyl, B=phenyl, R=C_2R_5; A=4-nitrophenyl, B=phenyl, R=H;A=2-nitrophenyl, B=4-n-butoxyphenyl, R=H; A=2-nitro-4-chlorophenyl, B=4-methylphenyl, R=H; A=phenyl, B=8-carboxynaphthalenyl, R= CH_3; A=2,5-dimethoxyphenyl, B=2-hydroxyphenyl, R=C_2R_5; A=4-fluorophenyl, B=2-nitro-4-trifluoromethylphenyl, R= CH_3; A=3-chloro-4-methylphenyl, B=2,4-dinitrophenyl, R= CH_3;A=2-nitro-4-chlorophenyl, B=phenyl, R=H;A=4,5-dimethoxy-2-nitrophenyl, B=4-methylphenyl, R=H; A=2-carboxy-6-nitrophenyl, B=phenyl, R= CH_3; A=2,4,5-trimethoxyphenyl,

B=3-methoxyphenyl, R=H; A=phenyl, B=4-bromophenyl, R=H; A=6-benzyloxy-2,3,4-trimethoxyphenyl, B=1,3-benzodioxol-5-yl, R=H; A=4,5-dimethoxy-2-nitrophenyl, B=4-methoxyphenyl, R=H; A=4,5-dimethoxy-2-nitrophenyl, B=4-chlorophenyl, R=H; A=2,4-dibenzyloxyphenyl, B=4-methoxyphenyl, R=H; A=4-methylphenyl, B=4-methylphenyl, R=H; A=4-dimethylaminophenyl, B=phenyl, R=H; A=4-methoxyphenyl, B=phenyl, R=H;A=4,5-dichloro-2-nitrophenyl, B=4-chlorophenyl, R=H; A=2-nitrophenyl, B=4-methoxyphenyl, R=H; A=phenyl, B=2,5-dimethoxycarbonylaminophenyl, R= CH_3; A=4-hydroxy-4-methoxyphenyl, B=2-methoxyphenyl, R=H;A=phenyl, B=4-methylphenyl, R=H; A=2-nitrophenyl, B=4-ethoxyphenyl, R=H; A=2-nitro-4-chlorophenyl, B=4-methoxyphenyl, R=H; A=4-chlorophenyl, B=phenyl, R=C_2H_5;A=2-t-butoxycarbonyl-5-ethyl-4-methoxyphenyl, B=2,3-dihydro-7-methyl-1,4-benzodioxin-6-yl, R=t-butyl; A=phenyl, B=2-nitro-4-trifluoromethylphenyl, R= CH_3; A=3,4-dichlorophenyl, B=2,4-dinitrophenyl, R= CH_3;A=4,5-dichloro-2-nitrophenyl, B=4-methoxyphenyl, R=H;A=4-methoxy-2-nitrophenyl, B=4-methylphenyl, R=H; A=phenyl, B=anthracene-9-yl, R= CH_3;A=phenyl, B=4-methoxyphenyl, R=H; A=2,4,5-trimethoxyphenyl, B=phenyl, R=H;A=2,4-diacetoxyphenyl, B=2,4,5-trimethoxyphenyl, R= CH_3; A=2-hydroxyphenyl, B=phenyl, R=H; A=4-methoxy-2-nitrophenyl, B=phenyl, R=H; A=4,5-dimethoxy-2-nitrophenyl, B-phenyl, R=H;A=2,4-dinitrophenyl, B=phenyl, R= CH_3; A=phenyl, B=phenyl, R= CH_3;A=phenyl, B=4-dimethylaminophenyl, R=H;A=phenyl, B=2,4-dinitrophenyl, R= CH_3;A=4,5-dichloro-2-nitrophenyl, B=4-methylphenyl, R=H; A=4-bromophenyl, B=phenyl, R= CH_3; A=2-(4-methylphenylsulfonyloxy)-6-methoxyphenyl, B=phenyl, R=H; A=4-methylsulfonylphenyl, B=2-methoxyphenyl, R= CH_3; A=4-methoxyphenyl, B=4-methoxyphenyl, R= CH_3; A=phenyl, B=4-chlorophenyl, R=H; A=2-nitrophenyl, B=4-nitrophenyl, R=H; A=phenyl, B=phenyl, R=H; A=2,4-dimethoxyphenyl, B=4-methoxyphenyl, R=H; A=2-nitrophenyl, B=4-n-hexyloxyphenyl, R=H; A=4-methoxy-2-nitrophenyl, B=4-methoxyphenyl, R=H; A=phenyl, B=9-carboxyphenanthren-10-yl, R= CH_3;

A=phenyl, B=phenyl, R= CH_3; A=3,4-dimethoxyphenyl, B=3,4-dimethoxyphenyl, R=H; A=2,4-dimethoxyphenyl, B=phenyl, R=H; A=phenyl, B=2-hydroxy-3,4,6-trimethyl-5-methoxyphenyl, R= CH_3; A=4-chloro-2-nitrophenyl, B=4-chlorophenyl, R=H; A=2-nitrophenyl, B=4-chlorophenyl, R=H; A=2,4,5-trimethoxyphenyl, B=3,4-dimethoxyphenyl, R=H; A=4-chlorophenyl, B=2,4-dinitrophenyl, R= CH_3; A=4,5-dichloro-2-nitrophenyl, B=phenyl, R=H; A=4-methoxyphenyl, B=phenyl, R= CH_3; A=2,4-dibenzyloxyphenyl, B=3,4-dimethoxyphenyl, R=H; A=4-methylthiophenyl, B=4-methoxyphenyl, R= CH_3;A=phenyl, B=phenyl, R=C_2H_5; A=4-methoxyphenyl, B=2,4-dinitrophenyl, R= CH_3; A=2-nitrophenyl, B=3-chlorophenyl, R=H; A=2-nitrophenyl, B=3,4-dimethoxyphenyl, R=H; A=4-methoxyphenyl, B=4-methoxyphenyl, R=H; A=2-hydroxyphenyl, B=4-methoxyphenyl, R=H; A=phenyl, B=2,5-bis(phenacylamino)phenyl, R= CH_3; A=4-nitrophenyl, B=4-methylphenyl, R=H; A=2-nitrophenyl, B=4-n-pentyloxyphenyl, R=H; A=4-methoxy-2-nitrophenyl, B=4-chlorophenyl, R=H; A=phenyl, B=2-carboxynaphthalen-1-yl, R= CH_3.

18 (Canceled):